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CLAIMS

1. A kit of parts forming a construction toy comprising a plurality of building blocks of differing length and shape and a plurality of pegs for joining blocks together and to other items such as a base for creating structures, and comprising a basic block in the form of a cube and all larger blocks are whole number multiples of the basic block, such that the length dimension one of the side faces of each larger block is equal to a whole number multiple of the edge length of the basic cube block and the cross section of all blocks is the same and corresponds to the square face of the basic cube block, so that each larger block is a K-element block where K is the number of cube blocks which will make up the length of the said one side face of the larger block when laid side by side, and in one of the side faces of a K element block there are K equally spaced apart peg receiving openings and in an adjoining side face thereof there are (K - 1) equally spaced apart similar peg receiving openings, characterised in that each of the blocks has a single opening centrally of each end face thereof for receiving a peg, all the peg receiving openings are the same size, and at least one end face of some of the larger blocks is inclined to the said one side face of the block so as to subtend an angle relative thereto that is not 90° , so as to form a solid trapezium, whereby in use blocks can be joined end to end by pegs received in the central end face openings either in line where the end face of each abutting block is square to the remainder of its block, or so as to define an angle if at least one of the abutting end faces is inclined to said one side face of the block.

2. A kit of parts as claimed in claim 1 wherein both ends are inclined to the said one side face and are inclined by the same amount so as to form a regular solid trapezium.

3. A kit of parts as claimed in claim 1 or 2 in which the angle between the or each end face and the said one side face of the block is 75° , 67.5° , 60° or 45° .

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4. A kit of parts as claimed in any of claims 1 to 3 wherein the pegs are formed from a material which is more resiliently deformable than the blocks.

5. A kit of parts as claimed in any of claims 1 to 3 wherein the pegs are formed from a rigid material and the material forming the blocks is sufficiently resiliently deformable to allow the pegs to be forced into the openings in the blocks.

6. A kit of parts as claimed in any of claims 1 to 3 wherein the pegs are formed from a material which can be bent to form a knee or elbow, and which is sufficiently stiff that it will remain bent.

7. A kit of parts as claimed in any of claims 1 to 3 wherein the pegs are formed from rigid material and are formed with a knee or elbow between two straight ends adapted to be pushed into openings in blocks, so that if the two straight ends are pushed into openings in a pair of blocks, one block will be angled relative to the other by an angle determined by that of the knee or elbow in the peg.

8. A kit of parts as claimed in any of claims 1 to 3 wherein the pegs are formed from a rigid material and are of generally circular cross section and all have the same diameter, and the openings in the blocks are constructed so as to have radially inwardly protruding teeth in the form of an internal gear wheel, and the pitch diameter of the inwardly directed teeth is substantially the same as the diameter of each peg, so that the latter is held firmly by the teeth when pushed into the opening.

9. A kit of parts as claimed in claim 8 wherein each peg is also formed with at least one axially parallel radially protruding rib to engage between the teeth within the opening to resist rotation of the peg therein.

10. A kit of parts as claimed in any of claims 1 to 8 wherein the blocks are differently coloured.

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11. A kit of parts as claimed in any of claims 1 to 8 wherein one end face of each block is differently coloured from the other.

12. A kit of parts as claimed in any of claims 1 to 8 wherein side faces of each block are differently coloured one from another and/or from the end faces.

13. A kit of parts as claimed in any of claims 1 to 8 in which one or more faces of each of the blocks is/are colour coded to indicate a specific function the block is designed to perform.

14. A kit of parts as claimed in any of claims 1 to 8 wherein side faces of the blocks having an even number of openings are one colour and side faces having an odd number of openings are another colour.

15. A kit of parts as claimed in any of claims 1 to 14 wherein the colouring of one or more faces of the blocks involves colouring the whole of the face or only a part of the face, or involves colouring only around the entrance to, or the interior of the opening or openings in the face.

16. A kit of parts as claimed in any of claims 1 to 15 wherein each block has openings in all six faces.

17. A kit of parts as claimed in any of claims 1 to 16 wherein the pegs are constructed from wood or metal or plastics or combinations thereof.

18. A kit of parts as claimed in claim 17 wherein the pegs are formed from plastics by injection moulding.

19. A kit of parts as claimed in any of claims 1 to 18 wherein the blocks are hollow.

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20. A kit of parts as claimed in any of claims 1 to 19 wherein some or all of the openings extend unobstructed from one face of the block to the opposite face, and elongate pegs are employed the length of which is sufficient to allow two or more blocks to be threaded thereon one after another.
21. A kit of parts as claimed in any of claims 1 to 20 in which at least some of the openings in the blocks are blocked at a predetermined depth to form blind holes, so as to prevent a length of peg material from being pushed by more than that depth into the block.
22. A kit of parts as claimed in claim 21 wherein all the openings are blocked at a predetermined depth which is selected so that a peg can be pushed into every opening in a block without interfering with any other pegs already introduced therein.
23. A kit of parts as claimed in any of claims 1 to 22 wherein the cross-sectional shape of each peg is circular, so that when fitted into a block the block can rotate relative to the peg.
24. A kit of parts as claimed in any of claims 1 to 22 wherein the cross-sectional shape of each opening is triangular, square, or hexagonal and similarly shaped cross section pegs are employed, so that the interengagement of a peg and a block will prevent relative rotation between the block and the peg.
25. A kit of parts as claimed in claims 1 to 22 wherein the openings in the blocks are triangular, square or hexagonal in cross section and wherein there are two types of peg, one type having a cross section corresponding to that of the openings and dimensioned to just fit within the openings, so that when two blocks are joined thereby, no relative rotation between the two blocks can occur, and the other type having a circular cross section of a diameter such that the peg will just fit within the non-circular openings which will permit relative rotation between the two blocks if required.

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26. A kit of parts as claimed in any of claims 1 to 25 wherein the blocks are constructed from wood or metal or plastics or a combination of any of the aforesaid.
27. A kit of parts as claimed in any of claims 1 to 25 wherein each block is formed from a plastics material by moulding.
28. A kit of parts forming a construction toy comprising a plurality of building blocks of differing length and shape and a plurality of pegs for joining the blocks together or to other members such as a base for creating structures, wherein each block has similarly proportioned side faces and two similarly proportioned end faces each of which includes at least one opening therein for receiving a peg, some of the blocks have one opening centrally of each face and others have N spaced apart openings in one side face and $(N+1)$ spaced apart similar openings in an adjoining side face thereof, where N is a whole number equal to or greater than 1, and wherein the openings in the side faces are the same size as the openings in the end faces and are also for receiving pegs, characterised in that the or each end face of each of some of the blocks is inclined to at least some of the sides of each such block, to form a solid trapezium or wedge, so that if fitted end to end with other blocks, a corner can be constructed.
29. A kit of parts forming a construction toy comprising a plurality of building blocks of differing length and shape and a plurality of pegs for joining the blocks together and to other items such as a base for creating structures, wherein each block has similarly proportioned side faces and two similarly proportioned end faces each of which includes at least one opening therein for receiving a peg, some of the blocks have one opening centrally of each face and others have N spaced apart openings in one side face and $(N+1)$ spaced apart similar openings in an adjoining side face thereof, where N is a whole number equal to or greater than 1, and wherein the openings in the side faces are the same size as the openings in the end faces and are also for receiving pegs, characterised in that at least some of the pegs are supplied in long lengths which are provided with half-cuts at equally spaced apart points along their length to enable them to be cut or broken into lengths to suit the block or blocks into which they are to be fitted.

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30. A kit of parts forming a construction toy from which a structure having tiered seating can be constructed comprising a plurality of building blocks of differing length and shape and a plurality of pegs for joining blocks together and to other items such as a base for creating structures, and comprising a basic block in the form of a cube and all larger blocks are whole number multiples of the basic block, so that the length dimension of each larger block is equal to a whole number multiple of the edge length of the basic cube block and the cross section of all blocks is the same and corresponds to the square face of the basic cube block, so that each larger block is a K-element block where K is the number of cube blocks which will make up the longer length of the larger block when laid side by side, and the basic cube block includes a single opening centrally of each of its faces for receiving a peg and each of the other blocks has a single opening centrally of each end face thereof for receiving a peg and all the peg receiving openings are the same size, characterised by cladding panels which in use are securable to lines of blocks to tie the blocks together.

31. A kit of parts as claimed in claim 30 wherein the cladding panels have pegs protruding from the rear face thereof by which they can be fitted to side or end faces of blocks.

32. A kit of parts as claimed in claim 30 wherein the cladding panels have openings therein through which pegs can be pushed to engage in openings in side or end faces of blocks, for securing the panels to the blocks.

33. A kit of parts as claimed in claims 30 or 31 wherein each cladding panel comprises a joined up line of model seats having pegs protruding from its underside or rear for insertion into an opening in a block.

34. A kit of parts as claimed in any of claims 30 to 33 which when assembled resembles a sports arena or stadium having tiered seating around a central area.

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35. A kit of parts as claimed in claim 34 wherein the cladding panels are adapted to be fitted to the front faces of the lowermost layer of blocks defining the tiered seating to simulate advertising hoardings.

36. A kit of parts as claimed in claims 34 or 35 wherein the cladding panels simulate tiered terraces and/or tiered seating and/or external walls of the terraces.

37. A kit of parts as claimed in claim 30 wherein tiered assemblies are constructed from a lattice of elongate blocks joined by pegs and the cladding panels are secured to the lattice of blocks.

38. A kit of parts as claimed in any of claims 1 to 37 further comprising a baseboard having a matrix of holes formed therein into which pegs can be push fitted to allow blocks to be secured to the board.

39. A kit of parts as claimed in claim 39 wherein the board is pre-printed to define a central area as a football, or baseball, or American football, or rugby pitch, or an athletics track.

40. A model structure constructed from a kit of parts as claimed in any of claims 1 to 37 comprised of a plurality of blocks fitted together using pegs to form tiered assemblies of blocks arranged to form terraces around a central area in the form of a stadium or open-air theatre.